```
#include "iostream.h"
main()
     int x,y,w,c=0;
    char P1, P2, T[3][3];
     cout<<"\t\t******* Welcome you to XO game ********\n\n";
     cout << "let player 1 choose X or 0\n";
     for(;;)
          cin>>P1;
          if(P1=='x') { P2='o'; cout<<"player 2 is "<<P2<<endl; break; }
if(P1=='o') { P2='x'; cout<<"player 2 is "<<P2<<endl; break; }</pre>
          cout << "wrong choice \n";
     cout<<"\t**** let's begin ****\n";
     for(x=0;x \leqslant =2;++x)
          for(y=0;y<=2;++y)
               T[x][y]='-';
          cout<<"\n\n\n";
    cout << "\n\n";
    for(;;)
         cout << "PLAYER 1 play your position: ";
          for(;;)
          {
               if((x<-3)\&\&(y<-3)\&\&(T[x-1][y-1]!=P2)\&\&(T[x-1][y-1]!=P1)) break;
               else cout << "Error...wrong position \n";
          T[x-1][y-1]=P1;
          if(c)=3
              for(;;)
               €.
                    cout<<"\nyou have to move one of the locations; ";
                   cin>>x>>y;
if(T[x-1][y-1]==P2) cout<<"Error...wrong position\n";</pre>
                    else { T[x-1][y-1]='-'; break; }
          for(x=0;x<=2;++x)
               for(y=0;y<=2;++y)</pre>
                   cout<<T[x][y]<<"\t";
              cout<<"\n\n\n";
          for(x=0;x<=2;++x)
               if(T[x][0] == P1&&T[x][1] == P1&&T[x][2] == P1
              { w=1; cout << "\t******* player 1 won *******\n\n\n"; break; }
if (T[0][x]==P1&&T[1][x]==P1&&T[2][x]==P1)
{ w=1; cout << "\t******** player 1 won ******\n\n\n"; break; }
if (T[0][0]==P1&&T[1][1]==P1&&T[2][2]==P1)
               { w=1; cout<<"\t******* player 1 won ******\n\n\n"; break; }
if(T[0][2]==P1&&T[1][1]==P1&&T[2][0]==P1)
               { w=1; cout<<"\t******* player 1 won *******\n\n\n"; break; }
          if(w==1) { cout<<"Thank you I hope you have fune\n\n\n"; break; }
```

```
cout << "PLAYER 2 play your position: ";
      for(;;)
           cin>>x>>y;
           if((x <= 3) \& \& (y <= 3) \& \& (T[x-1][y-1]! = P1) \& \& (T[x-1][y-1]! = P2)) \ break;
           else cout<<"Error...wrong position\n";
      T[x-1][y-1]=P2;
      if(c>=3)
           for(;;)
            {
                 cout << "\nyou have to move one of the locations: ";
                 cin>\x>>y;
if(T[x-1][y-1]==P1) cout<<"Error...wrong position\n";
else { T[x-1][y-1]='-'; break; }</pre>
      for(x=0;x<=2;++x)
           for(y=0;y<=2;++y)
          cout<<T[x][y]<<"\t";
cout<<"\n\n\n";</pre>
      for(x=0;x<=2;++x)
            if(T[x][0] == P2&&T[x][1] == P2&&T[x][2] == P2)
           { w=1; cout<("\t********* player 2 won *******\n\n\n"; break; }
if(T[0][x]==P2&&T[1][x]==P2&&T[2][x]==P2)
           fr([0][a]=-f2&&f[1][a]=-f2&&f[2][a]--f2)
{ w=1; cout<<"\t******** player 2 won *******\n\n\n"; break; }
if(T[0][0]==P2&&T[1][1]==P2&T[2][2]==P2)
{ w=1; cout<<"\t********* player 2 won ******\n\n\n"; break; }
</pre>
            if(T[0][2]==P2&&T[1][1]==P2&&T[2][0]==P2)
            { w=1; cout<<"\t******* player 2 won *******\n\n\n"; break; }
      if(w==1) { cout<<"Thank you I hope you have fune\n\n\n"; break; }
     0++;
return 0;
```

}